

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE June 25, 1973

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Granbling C No. 11</u>	
Location <u>1500/E, 1240/N, Sec 14, T-30-N, R-10-W</u>		County <u>San Juan</u>	State <u>New Mexico</u>
Formation <u>Pictured Cliffs EXT</u>		Pool <u>Blanco</u>	
Casing: Diameter <u>2.875</u>	Set At: Feet <u>3199</u>	Tubing: Diameter <u>No tubing</u>	Set At: Feet
Pay Zone: From <u>3085</u>	To <u>3120</u>	Total Depth: <u>3199</u>	Set In <u>6-11-73</u>
Stimulation Method <u>SDP</u>		Flow Through Casing <u>XXX</u>	Flow Through Tubing

Choke Size, Inches <u>.750</u>	Choke Constant: C <u>12.365</u>	Correlation <u>Correlation</u>	
Shut-In Pressure, Casing, PSIG <u>887</u>	+ 12 = PSIA <u>899</u>	Day: Shut-In <u>14</u>	Shut-In Pressure, Tubing, PSIG <u>No tubing</u>
Flowing Pressure: P, PSIG <u>131</u>	+ 12 = PSIA <u>143</u>	Working Pressure: P _w , PSIG <u>Calculated</u>	+ 12 = PSIA <u>141</u>
Temperature: T = <u>60</u> °F	n = <u>.85</u>	F _{pv} (from tables) <u>1.013</u>	Gravity <u>0.655</u>

$$\text{CHOKE VOLUME} = Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$$

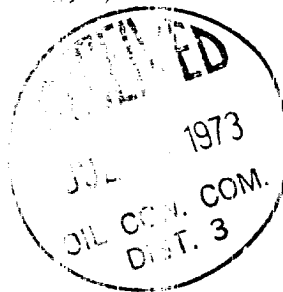
$$Q = (74.47)(143)(1.000)(1.013)(1.013) = 1741 \text{ MCF/D}$$

$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

NOTE: Well produced by gas.

$$Aof = Q \left(\frac{887^2}{887^2 - 131^2} \right)^{.85} = 1741 (1.013)^{.85} = 1741 (1.0658)$$

$$Aof = 1864 \text{ MCF/D}$$



TESTED BY Carl Phares

WITNESSED BY _____

William P. Welch
William P. Welch, Well Test Engineer